

12/9/1 (Item 1 from file: 351)

DIALOG(R) File 351:Derwent WPI

(c) 2001 Derwent Info Ltd. All rts. reserv.

010948181 \*\*Image available\*\*

WPI Acc No: 1996-445131/199645

XRAM Acc No: C96-140117

Metal-contg. compsn. for making electron-emitting devices - comprising an organic acid gp., a transition metal, an alcohol amine and water.

Patent Assignee: CANON KK (CANO )

Inventor: FURUSE T; IWAKI T; KOBAYASHI S; MIURA N; TOMIDA Y; YUASA S

Number of Countries: 009 Number of Patents: 013

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 736890	A1	19961009	EP 96302458	A	19960404	199645	B
JP 8277294	A	19961022	JP 95101619	A	19950404	199701	
JP 9106754	A	19970422	JP 95286344	A	19951009	199726	
JP 9106755	A	19970422	JP 95288167	A	19951011	199726	
JP 9185940	A	19970715	JP 95352440	A	19951228	199738	
JP 9245615	A	19970919	JP 9678164	A	19960307	199748	
JP 9274850	A	19971021	JP 96104807	A	19960403	199801	
JP 9274851	A	19971021	JP 96104808	A	19960403	199801	
JP 11315241	A	19991116	JP 95288167	A	19951011	200005	
			JP 9962731	A	19951011		
JP 11323224	A	19991126	JP 95101619	A	19950404	200007	
			JP 9961531	A	19950404		
US 6123876	A	20000926	US 96627566	A	19960404	200051	
CN 1146061	A	19970326	CN 96108459	A	19960404	200106	
KR 229231	B1	19991101	KR 9610235	A	19960404	200110	

Priority Applications (No Type Date): JP 96104808 A 19960403; JP 95101619 A 19950404; JP 95286344 A 19951009; JP 95288167 A 19951011; JP 95352440 A 19951228; JP 9678164 A 19960307; JP 96104807 A 19960403; JP 9962731 A 19951011; JP 9961531 A 19950404

Cited Patents: EP 660359

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 736890	A1	E	78 H01J-001/30	
Designated States (Regional): DE FR GB IT NL				
JP 8277294	A	21	C07F-015/00	
JP 9106754	A	19	H01J-001/30	
JP 9106755	A	19	H01J-001/30	
JP 9185940	A	28	H01J-001/30	
JP 9245615	A	17	H01J-001/30	
JP 9274850	A	18	H01J-009/02	
JP 9274851	A	19	H01J-009/02	
JP 11315241	A	19	C09D-011/00	Div ex application JP 95288167
JP 11323224	A	20	C09D-011/00	Div ex application JP 95101619
US 6123876	A		H01B-001/06	
CN 1146061	A		H01J-001/30	
KR 229231	B1		H01J-001/30	

Abstract (Basic): EP 736890 A

A metal-contg. compsn. for forming an electron-emitting device contains: (a) an organic acid gp.; (b) a transition metal; (c) an alcohol amine; and (d) water. Also claimed are: (1) a method for mfg. an electron-emitting device having an electroconductive film contg. an electron-emitting region placed between a pair of device electrodes, in which the process of forming the electroconductive film, where the electron-emitting region is to be formed, comprises applying the above compsn. contg. the material of the electroconductive film and heating the compsn.; (2) a method of mfg. an electron source comprising multiple electron-emitting devices, each having an electroconductive film as in (1) above; and (3) an electron-emitting device including any of the metal-contg. compsns. described.

USE - In a television display, a video conferencing monitor, a computer system, an editing appts. for still and moving pictures, or an optical printer comprising a photosensitive drum, etc.

ADVANTAGE - The compsn. forms an electroconductive film at relatively low baking temp. The metal cpd. in it is not lost by evapn. and/or sublimation during baking. Formation of crystals on the substrate surface can be prevented and the compsn. may be applied as a pattern using an ink-jet printer. A film of uniform thickness may be applied irrespective of the nature of the substrate. Electroconductive films may be produced with desired profile, which are uniform and homogeneous so that devices contg. them operate stably. An image-forming appts. contg. an electron source comprising a large number of such devices may be made.

1A, 3A, 4, 5/

17

Title Terms: METAL; CONTAIN; COMPOSITION; ELECTRON; EMIT; DEVICE; COMPRIZE; ORGANIC; ACID; GROUP; TRANSITION; METAL; ALCOHOL; AMINE; WATER

Derwent Class: A85; E12; E16; G08; L03; P75

International Patent Class (Main): H01B-001/06; H01J-001/30; H01J-009/02

International Patent Class (Additional): B41J-002/01; B41M-005/00;

C07F-015/00; C08K-003/10; C08K-005/05; C08K-005/17; C08K-005/56;

C08L-001/02; C08L-029/04; C08L-101/00; C08L-101/14; C09D-011/00;

H01B-001/14; H01B-001/22; H01J-029/04; H01J-031/12

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A12-E11; A12-L05C1; E05-L; E05-M; E05-N; G06-F06; G06-F07; G06-G07; L03-C02

Chemical Fragment Codes (M3):

\*01\* A332 A349 A350 A351 A382 A422 A426 A427 A429 A430 A539 A540 A544  
A546 A547 A657 A672 A673 A674 A678 A679 A758 A764 A960 C710 J0 J011  
J1 J171 M210 M211 M212 M213 M214 M231 M232 M233 M262 M280 M281 M320  
M411 M510 M520 M530 M540 M620 M630 M770 M781 M782 M903 M904 Q454  
R021 R023 R024 R043 9645-A9101-M 9645-A9101-U

\*02\* H1 H103 H181 H4 H401 H402 H403 H481 H482 H483 H8 L640 L699 M210 M211  
M212 M213 M214 M215 M216 M220 M221 M222 M223 M224 M225 M226 M231  
M232 M233 M273 M280 M281 M282 M311 M312 M313 M314 M315 M321 M322  
M323 M331 M332 M333 M340 M342 M383 M391 M392 M393 M416 M620 M770  
M781 M782 M903 M904 Q454 R021 R023 R024 R043 9645-A9102-M  
9645-A9102-U

\*03\* H1 H100 H181 H4 H401 H402 H403 H481 H482 H483 H8 M280 M312 M313 M314  
M315 M321 M331 M332 M333 M334 M342 M343 M344 M383 M391 M416 M620  
M770 M781 M782 M903 M904 Q454 R021 R023 R024 R043 9645-A9103-M  
9645-A9103-U

Polymer Indexing (PS):

<01>

\*001\* 018; R00351 G1558 D01 D23 D22 D31 D42 D50 D73 D82 F47; H0000; P0055  
; P8004 P0975 P0964 D01 D10 D11 D50 D82 F34

\*002\* 018; R00370 G1558 D01 D11 D10 D23 D22 D31 D42 D50 D73 D83 F47;  
H0000; P0055; P8015 P0975 P0964 D01 D10 D11 D50 D83 F34

\*003\* 018; ND01; Q9999 Q7512; Q9999 Q9449 Q8173; Q9999 Q8775-R; Q9999  
Q8606-R; K9814 K9803 K9790

\*004\* 018; B9999 B5094 B4977 B4740; B9999 B3521-R B3510 B3372

<02>

\*001\* 018; P1707 P1694 D01; M9999 M2186

\*002\* 018; ND01; Q9999 Q7512; Q9999 Q9449 Q8173; Q9999 Q8775-R; Q9999  
Q8606-R; K9814 K9803 K9790

\*003\* 018; B9999 B3521-R B3510 B3372

\*004\* 018; R00247 D01 D11 D10 D50 D60 D82 F36 F35; H0226

<03>

\*001\* 018; R01860 G3678 G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D76 D89  
F24 F34 H0293 P0599 G3623

\*002\* 018; ND01; Q9999 Q7512; Q9999 Q9449 Q8173; Q9999 Q8775-R; Q9999  
Q8606-R; K9814 K9803 K9790

\*003\* 018; B9999 B3521-R B3510 B3372

Generic Compound Numbers: 9645-A9101-M; 9645-A9101-U; 9645-A9102-M;  
9645-A9102-U; 9645-A9103-M; 9645-A9103-U

12/9/2 (Item 1 from file: 345)

DIALOG(R) File 345:Inpadoc/Fam.& Legal Stat

(c) 2001 EPO. All rts. reserv.

13237488

Basic Patent (No,Kind,Date): EP 736890 A1 19961009 <No. of Patents: 011>

PATENT FAMILY:

CHINA (CN)

Patent (No,Kind,Date): CN 1146061 A 19970326

METAL-CONTAINING COMPOSITION FOR FORMING ELECTRON-EMITTING DEVICE AND METHODS OF MANUFACTURING ELECTRON-EMITTING DEVICE, ELECTRON SOURCE AND IMAGE-FORMING APPARATUS (English)

Patent Assignee: CANON KK (JP)

Author (Inventor): KOBAYASHI SHIN (JP); FURUSE TSUYOSHI (JP); SATOSHI YASA (JP)

Priority (No,Kind,Date): JP 95101619 A 19950404; JP 95286344 A 19951009

Applc (No,Kind,Date): CN 96108459 A 19960404

IPC: \* H01J-001/30; H01J-029/04; C08L-029/04; C08L-001/02

CA Abstract No: \* 125(26)345325F

Derwent WPI Acc No: \* C 96-445131

Language of Document: Chinese

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 736890 A1 19961009

METAL-CONTAINING COMPOSTITION FOR FORMING ELECTRON-EMITTING DEVICE AND METHODS OF MANUFACTURING ELECTRON-EMITTING DEVICE, ELECTRON SOURCE AND IMAGE-FORMING APPARATUS (English; French; German)

Patent Assignee: CANON KK (JP)

Author (Inventor): KOBAYASHI SHIN (JP); FURUSE TSUYOSHI (JP); YUASA SATOSHI (JP); MIURA NAOKO (JP); IWAKI TAKASHI (JP); TOMIDA YASUKO (JP)

Priority (No,Kind,Date): JP 95101619 A 19950404; JP 95286344 A 19951009; JP 95288167 A 19951011; JP 95352440 A 19951228; JP 9678164 A 19960307; JP 96104807 A 19960403; JP 96104808 A 19960403

Applc (No,Kind,Date): EP 96302458 A 19960404

Designated States: (National) DE; FR; GB; IT; NL

IPC: \* H01J-001/30

CA Abstract No: \* 125(26)345325F; 125(26)345325F

Derwent WPI Acc No: \* C 96-445131; C 96-445131

Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 736890 P 19950404 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 736890 P 19951009 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 736890 P 19951011 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 736890 P 19951228 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 736890 P 19960307 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 736890 P 19960403 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 736890 P 19960403 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 736890	P	19960404	JP 96104808 A 19960403 EP AE EP-APPLICATION (EUROPAEISCHE ANMELDUNG)
EP 736890	P	19961009	EP 96302458 A 19960404 DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT: (IN EINER ANMELDUNG BENANNTEN VERTRAGSSTAATEN)
EP 736890	P	19961009	DE FR GB IT NL PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)
EP 736890	P	19970416	REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 970219
EP 736890	P	19980121	FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID) 971208
EP 736890	P	20010704	DIVISIONAL APPLICATION (ART 76) IN: (CORRECTION) (TEILANMELDUNG (ART. 76) IN: (KORR.)) EP 2001201600 A 20010503

JAPAN (JP)

Patent (No,Kind,Date): JP 8277294 A2 19961022  
 ORGANIC METAL COMPLEX, MATERIAL FOR FORMING CONDUCTIVE FILM, AND PRODUCTION OF ELECTRON-RELEASING ELEMENT, ELECTRON SOURCE, DISPLAY PANEL AND IMAGE-FORMING DEVICE WITH THE SAME (English)

Patent Assignee: CANON KK

Author (Inventor): KOBAYASHI TATSU

Priority (No,Kind,Date): JP 95101619 A 19950404

Applic (No,Kind,Date): JP 95101619 A 19950404

IPC: \* C07F-015/00; H01J-001/30; H01J-009/02

CA Abstract No: \* 125(26)345325F

Derwent WPI Acc No: \* C 96-445131

Language of Document: Japanese

Patent (No,Kind,Date): JP 9106754 A2 19970422

MATERIAL FOR FORMING ELECTRON EMISSION PORTION, AND MANUFACTURE OF ELECTRON EMISSION ELEMENT, ELECTRON SOURCE, DISPLAY ELEMENT AND IMAGE FORMING DEVICE BY USING THE MATERIAL (English)

Patent Assignee: CANON KK

Author (Inventor): FURUSE TAKASHI

Priority (No,Kind,Date): JP 95286344 A 19951009

Applic (No,Kind,Date): JP 95286344 A 19951009

IPC: \* H01J-001/30; H01J-009/02; H01J-031/12; C09D-011/00

CA Abstract No: \* 125(26)345325F

Derwent WPI Acc No: \* C 96-445131

Language of Document: Japanese

Patent (No,Kind,Date): JP 9106755 A2 19970422

MATERIAL FOR FORMING ELECTRON EMISSION PORTION, AND MANUFACTURE OF ELECTRON EMISSION ELEMENT, ELECTRON SOURCE, DISPLAY ELEMENT AND IMAGE FORMING DEVICE (English)

Patent Assignee: CANON KK

Author (Inventor): MIURA NAOKO

Priority (No,Kind,Date): JP 95288167 A 19951011

Applic (No,Kind,Date): JP 95288167 A 19951011

IPC: \* H01J-001/30; C08K-005/17; C08K-005/56; C08L-101/00; C08L-101/14 ; H01J-009/02

CA Abstract No: \* 125(26)345325F

Derwent WPI Acc No: \* C 96-445131

Language of Document: Japanese

Patent (No,Kind,Date): JP 9185940 A2 19970715

METAL COMPOSITION FOR MANUFACTURING ELECTRON EMISSION ELEMENT, AND MANUFACTURE OF ELECTRON EMISSION ELEMENT, ELECTRON SOURCE, DISPLAY ELEMENT AND IMAGE FORMING DEVICE USING THE SAME (English)

Patent Assignee: CANON KK

Author (Inventor): YUASA SATOSHI

Priority (No,Kind,Date): JP 95352440 A 19951228

Applie (No,Kind,Date): JP 95352440 A 19951228  
IPC: \* H01J-001/30; C08K-003/10; C08K-005/05; C08K-005/56; C08L-029/04  
; H01J-009/02; H01J-031/12  
CA Abstract No: \* 125(26)345325F  
Derwent WPI Acc No: \* C 96-445131  
Language of Document: Japanese  
Patent (No,Kind,Date): JP 9245615 A2 19970919  
MANUFACTURE OF ELECTRON EMITTING ELEMENT FORMING NICKEL COMPLEX OR ITS  
HYDRATE AND ITS SOLUTION, ELECTRON EMITTING ELEMENT AND IMAGE FORMING  
DEVICE (English)  
Patent Assignee: CANON KK  
Author (Inventor): IWAKI TAKASHI  
Priority (No,Kind,Date): JP 9678164 A 19960307  
Applie (No,Kind,Date): JP 9678164 A 19960307  
IPC: \* H01J-001/30; B41J-002/01; H01J-009/02  
CA Abstract No: \* 125(26)345325F  
Derwent WPI Acc No: \* C 96-445131  
Language of Document: Japanese  
Patent (No,Kind,Date): JP 9274850 A2 19971021  
METAL INCLUDED SOLUTION FOR ELECTRON EMITTING UNIT, FORMING MANUFACTURE  
OF ELECTRON EMITTING ELEMENT USING THIS SOLUTION, ELECTRON SOURCE,  
DISPLAY PANEL AND IMAGE FORMING DEVICE (English)  
Patent Assignee: CANON KK  
Author (Inventor): TOMITA YASUKO; IWAKI TAKASHI  
Priority (No,Kind,Date): JP 96104807 A 19960403  
Applie (No,Kind,Date): JP 96104807 A 19960403  
IPC: \* H01J-009/02; C07F-015/00; H01J-001/30; H01J-031/12  
CA Abstract No: \* 125(26)345325F  
Derwent WPI Acc No: \* C 96-445131  
Language of Document: Japanese  
Patent (No,Kind,Date): JP 9274851 A2 19971021  
METAL INCLUDED SOLUTION FOR ELECTRON EMITTING ELEMENT, FORMING AND  
MANUFACTURE OF ELECTRON EMITTING ELEMENT USING THIS SOLUTION,  
ELECTRON SOURCE, DISPLAY ELEMENT AND IMAGE FORMING DEVICE (English)  
Patent Assignee: CANON KK  
Author (Inventor): TOMITA YASUKO  
Priority (No,Kind,Date): JP 96104808 A 19960403  
Applie (No,Kind,Date): JP 96104808 A 19960403  
IPC: \* H01J-009/02; C07F-015/00; H01J-001/30; H01J-031/12  
CA Abstract No: \* 125(26)345325F  
Derwent WPI Acc No: \* C 96-445131  
Language of Document: Japanese

KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 229231 B1 19991101  
METAL-CONTAINING COMPOSITION FOR FORMING ELECTRON-EMITTING DEVICE AND  
METHODS OF MANUFACTURING ELECTRON-EMITTING DEVICE, ELECTRON SOURCE AND  
IMAGE-FORMING APPARATUS (English)  
Patent Assignee: CANON KK (JP)  
Author (Inventor): KOBAYASHI SHIN (JP); FURUSE TSUYOSHI (JP); YUASA  
SATOSHI (JP); MIURA NAOKO (JP); IWAKI TAKASHI (JP); TOMIDA YASUKO  
(JP)  
Priority (No,Kind,Date): JP 95101619 A 19950404; JP 95286344 A  
19951009; JP 95288167 A 19951011; JP 95352440 A 19951228; JP  
9678164 A 19960307; JP 96104807 A 19960403; JP 96104808 A  
19960403  
Applie (No,Kind,Date): KR 9610235 A 19960404  
IPC: \* H01J-001/30  
CA Abstract No: \* 125(26)345325F  
Derwent WPI Acc No: \* C 96-445131  
Language of Document: Korean

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 6123876 A 20000926  
METAL-CONTAINING COMPOSITION FOR FORMING ELECTRON-EMITTING DEVICE  
(English)  
Patent Assignee: CANON KK (JP)  
Author (Inventor): KOBAYASHI SHIN (JP); FURUSE TSUYOSHI (JP); YUASA

SATOSHI (JP); MIURA NAOKO (JP); IWAKI TAKASHI (JP); TOMIDA YASUKO (JP)

Priority (No,Kind,Date): JP 95101619 A 19950404; JP 95286344 A 19951009; JP 95288167 A 19951011; JP 95352440 A 19951228; JP 9678164 A 19960307; JP 96104807 A 19960403; JP 96104808 A 19960403

Applic (No,Kind,Date): US 627566 A 19960404

National Class: \* 252519200; 252512000; 252513000; 252514000; 252519210; 423023000

IPC: \* H01B-001/06; H01B-001/14; H01B-001/22

CA Abstract No: \* 125(26)345325F

Derwent WPI Acc No: \* C 96-445131

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 6123876	P	19950404	US AA	PRIORITY (PATENT)
			JP 95101619 A	19950404
US 6123876	P	19951009	US AA	PRIORITY (PATENT)
			JP 95286344 A	19951009
US 6123876	P	19951011	US AA	PRIORITY (PATENT)
			JP 95288167 A	19951011
US 6123876	P	19951228	US AA	PRIORITY (PATENT)
			JP 95352440 A	19951228
US 6123876	P	19960307	US AA	PRIORITY (PATENT)
			JP 9678164 A	19960307
US 6123876	P	19960403	US AA	PRIORITY (PATENT)
			JP 96104807 A	19960403
US 6123876	P	19960403	US AA	PRIORITY (PATENT)
			JP 96104808 A	19960403
US 6123876	P	19960404	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 627566 A	19960404
US 6123876	P	20000926	US A	PATENT
US 6123876	P	20010522	US CC	CERTIFICATE OF CORRECTION

?

11/9/1 (Item 1 from file: 351)

DIALOG(R) File 351:Derwent WPI

(c) 2001 Derwent Info Ltd. All rts. reserv.

010948183 \*\*Image available\*\*

WPI Acc No: 1996-445133/199645

XRAM Acc No: C96-140118

XRPX Acc No: N96-374832

**Mfr. of electron-emitting device - by applying material contg. metal cpd. and film thickness controlling agent onto substrate**

Patent Assignee: CANON KK (CANO )

Inventor: MIURA N; TAKAHASHI Y

Number of Countries: 008 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 736892	A1	19961009	EP 96302284	A	19960329	199645	B
JP 8273533	A	19961018	JP 9599497	A	19950403	199701	
JP 9102271	A	19970415	JP 95284377	A	19951006	199725	
CN 1138210	A	19961218	CN 96101935	A	19960403	199806	
KR 221294	B1	19990915	KR 969965	A	19960403	200107	

Priority Applications (No Type Date): JP 95284377 A 19951006; JP 9599497 A 19950403

Cited Patents: EP 693766

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 736892 A1 E 43 H01J-009/02

Designated States (Regional): DE FR GB IT NL

JP 8273533 A 20 H01J-009/02

JP 9102271 A 15 H01J-009/02

CN 1138210 A H01J-009/02

KR 221294 B1 H01J-031/10

Abstract (Basic): EP 736892 A

A method for mfr. of an electron-emitting device possessing an electroconductive film, on which an electron-emission region is formed, forms an electron-emission region by a process that includes applying a metal cpd.-contg. material and a film thickness controlling agent to the substrate. Also claimed are: (1) a method for mfr. of an electron source comprising a substrate and multiple electron-emitting devices arrayed on the substrate, in which the electron-emitting devices are mfd. by the above method; and (2) a method for mfr. of an image-forming apparatus comprising a substrate with multiple electron-emitting devices as above, and an image-forming device, in which the electron-emitting devices are mfd. by the above process.

USE - Used in display panels and image-forming systems, e.g. television sets, monitors for video conferencing or computer systems, in a photo-printer comprising a photo- sensitive drum, which uses a line-form emission source or a two-dimensional emission source, etc..

ADVANTAGE - The method prevents the seepage of droplets due to the printed electrodes and non-uniform spreading of the droplets due to a distribution of wetting properties between areas of the substrate or between the substrate and the electrodes. There is no pptn. of crystals during the time interval between droplet deposition and baking, nor is there any volatilisation or sublimation, which reduces thinning of the electroconductive film and minimises irregularities in its electrical properties, e.g. sheet resistance.

Dwg.1A/19

Title Terms: MANUFACTURE; ELECTRON; EMIT; DEVICE; APPLY; MATERIAL; CONTAIN; METAL; COMPOUND; FILM; THICK; CONTROL; AGENT; SUBSTRATE

Derwent Class: A85; G08; L03; V05

International Patent Class (Main): H01J-009/02; H01J-031/10

International Patent Class (Additional): G09F-009/313; H01J-001/30; H01J-009/00; H01J-029/46; H01J-031/12; H04N-005/335

File Segment: CPI; EPI

Manual Codes (CPI/A-N): A12-E11A; A12-L05C1; G02-A05B; G05-F; G06-A07; G06-F06; G06-F07; L03-C02; L03-G05

Manual Codes (EPI/S-X): V05-L01A3; V05-L05D1

Polymer Indexing (PS):

<01>  
\*001\* 018; R00446 G0282 G0271 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D60  
D83 F36 F35; H0000; H0011-R; P0088 ; P0099  
\*002\* 018; G3634-R D01 D03 D11 D10 D23 D22 D31 D42 D76 F24 F34 H0293  
P0599 G3623  
\*003\* 018; R03275 R01863 D01 D11 D10 D23 D22 D31 D42 D50 D76 D86 F24 F29  
F26 F34 H0293 M2313 P0599 G3623  
\*004\* 018; ND01; Q9999 Q7512; Q9999 Q8606-R; Q9999 Q8775-R; N9999 N7147  
N7034 N7023; Q9999 Q7114-R; B9999 B5243-R B4740; K9676-R; K9483-R  
<02>  
\*001\* 018; R01860 G3678 G3634 D01 D03 D11 D10 D23 D22 D31 D42 D50 D76 D89  
F24 F34 H0293 P0599 G3623; S9999 S1616 S1605  
\*002\* 018; ND01; Q9999 Q7512; Q9999 Q8606-R; Q9999 Q8775-R; N9999 N7147  
N7034 N7023; Q9999 Q7114-R; B9999 B5243-R B4740; K9676-R; K9483-R;  
B9999 B3678 B3554

Derwent Registry Numbers: 0246-U; 0247-U; 1544-U

11/9/2 (Item 1 from file: 345)

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat  
(c) 2001 EPO. All rts. reserv.

13237484

Basic Patent (No,Kind,Date): EP 736892 A1 19961009 <No. of Patents: 006>

PATENT FAMILY:

CHINA (CN)

Patent (No,Kind,Date): CN 1138210 A 19961218  
MANUFACTURING METHOD FOR ELECTRON-EMITTING DEVICE, ELECTRON SOURCE, AND  
IMAGE-FORMING APPARATUS (English)  
Patent Assignee: CANON KK (JP)  
Author (Inventor): TAKAHASHI YASUO (JP); MIURA NAOKO (JP)  
Priority (No,Kind,Date): JP 9599497 A 19950403; JP 95284377 A  
19951006  
Applic (No,Kind,Date): CN 96101935 A 19960403  
IPC: \* H01J-009/02; H01J-009/00; H01J-031/10; H01J-029/46  
CA Abstract No: \* 125(26)345324E  
Derwent WPI Acc No: \* C 96-445133  
Language of Document: Chinese  
Patent (No,Kind,Date): CN 1290953 A 20010411  
METHOD FOR PRODUCING ELECTRONIC EMITTING DEVICE (English)  
Patent Assignee: CANON KK (JP)  
Author (Inventor): YASUO TAKAHASHI (JP); NAOKO MIURA (JP)  
Priority (No,Kind,Date): JP 9599497 A 19950403; JP 95284377 A  
19951006  
Applic (No,Kind,Date): CN 2000121684 A 20000721  
IPC: \* H01J-009/02  
CA Abstract No: \* 125(26)345324E  
Derwent WPI Acc No: \* C 96-445133  
Language of Document: Chinese

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 736892 A1 19961009  
MANUFACTURING METHOD FOR ELECTRON-EMITTING DEVICE, ELECTRON SOURCE, AND  
IMAGE FORMING APPARATUS Manufacturing method för electron-emitting  
device, electron source, and image forming apparatus (English; French  
; German)  
Patent Assignee: CANON KK (JP)  
Author (Inventor): TAKAHASHI YASUO (JP); MIURA NAOKO (JP)  
Priority (No,Kind,Date): JP 9599497 A 19950403; JP 95284377 A  
19951006  
Applic (No,Kind,Date): EP 96302284 A 19960329  
Designated States: (National) DE; FR; GB; IT; NL  
IPC: \* H01J-009/02  
CA Abstract No: \* 125(26)345324E; 125(26)345324E  
Derwent WPI Acc No: \* C 96-445133; C 96-445133  
Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 736892 P 19950403 EP AA PRIORITY (PATENT  
APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 736892 P 19951006 EP AA PRIORITY (PATENT  
APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 736892 P 19960329 EP AE EP-APPLICATION  
(EUROPÄISCHE ANMELDUNG)

EP 736892 P 19961009 EP AK DESIGNATED CONTRACTING  
STATES IN AN APPLICATION WITH SEARCH REPORT  
(IN EINER ANMELDUNG BENANNTEN VERTRAGSSTAATEN)

DE FR GB IT NL  
EP 736892 P 19961009 EP A1 PUBLICATION OF APPLICATION  
WITH SEARCH REPORT (VEROEFFENTLICHUNG DER  
ANMELDUNG MIT RECHERCHENBERICHT)

EP 736892 P 19970416 EP 17P REQUEST FOR EXAMINATION  
FILED (PRUEFUNGSANTRAG GESTELLT)  
970219

EP 736892 P 20000202 EP 17Q FIRST EXAMINATION REPORT  
(ERSTER PRUEFUNGSBESCHEID)  
19991217

JAPAN (JP)

Patent (No,Kind,Date): JP 8273533 A2 19961018

MANUFACTURE OF ELECTRON EMISSION ELEMENT, ELECTRON SOURCE, DISPLAY  
PANEL, AND IMAGE FORMING DEVICE (English)

Patent Assignee: CANON KK

Author (Inventor): TAKAHASHI YASUO

Priority (No,Kind,Date): JP 9599497 A 19950403

Applic (No,Kind,Date): JP 9599497 A 19950403

IPC: \* H01J-009/02; G09F-009/313; H01J-001/30; H01J-031/12;  
H04N-005/335

CA Abstract No: \* 125(26)345324E

Derwent WPI Acc No: \* C 96-445133

Language of Document: Japanese

Patent (No,Kind,Date): JP 9102271 A2 19970415

MANUFACTURE OF ELECTRON EMITTING ELEMENT, AND ELECTRON EMITTING  
ELEMENT, DISPLAY ELEMENT, AND IMAGE FORMING DEVICE (English)

Patent Assignee: CANON KK

Author (Inventor): MIURA NAOKO

Priority (No,Kind,Date): JP 95284377 A 19951006

Applic (No,Kind,Date): JP 95284377 A 19951006

IPC: \* H01J-009/02; H01J-001/30; H01J-031/12

CA Abstract No: \* 125(26)345324E

Derwent WPI Acc No: \* C 96-445133

Language of Document: Japanese

KOREA, REPUBLIC (KR)

Patent (No,Kind,Date): KR 221294 B1 19990915

ELECTRON EMITTING DEVICE AND MANUFACTURING METHOD OF ELECTRON SOURCE  
WITH THIS DEVICE AND IMAGE FORMING DEVICE (English)

Patent Assignee: CANON KK (JP)

Author (Inventor): TAKAHASHI YASUO (JP); MIURA NAOKO (JP)

Priority (No,Kind,Date): JP 9599497 A 19950403; JP 95284377 A  
19951006

Applic (No,Kind,Date): KR 969965 A 19960403

IPC: \* H01J-031/10

CA Abstract No: \* 125(26)345324E

Derwent WPI Acc No: \* C 96-445133

Language of Document: Korean